

IN THE CLAIMS

Please amend the claims as follows:

1 (currently amended). A biocompatible photonic crystal comprising a multilayered structure of a plurality of biocompatible materials that are assembled to have a spatial variation of index of refraction that is in one or more directions, wherein at least one of said biocompatible materials is digestible.

2. Canceled

3. (original) The photonic crystal of claim 1, wherein at least one of said materials are metabolizable.

4. (original) The photonic crystal of claim 1, wherein said materials comprise different indices of refraction for a defined frequency range of operation.

5. (original) The photonic crystal of claim 4, wherein said structure is repetitive in indices of refraction along one or more directions.

6. (original) The photonic crystal of claim 1, wherein at least one of said materials comprise a degree of transparency at a defined frequency range of operation.

7. (original) The photonic crystal of claim 6, wherein at least one of said materials are transparent in the microwave regime.
8. (original) The photonic crystal of claim 1, wherein at least one of said materials comprises starch, cellulose, polyactic acid polymethyl methacrylate, polyacrylic acid or carbohydrates.
9. (original) The photonic crystal of claim 1, wherein at least one of said materials comprises titania.
10. (original) The photonic crystal of claim 1, wherein said titania has a degree of transparency at a defined frequency range of operation.
11. (original) The photonic crystal of claim 1, wherein said structure is highly reflective for a defined frequency range of operation.
12. (original) The photonic crystal of claim 1, wherein at least one of said materials are absorbing within a defined frequency range of operation.
13. (original) The photonic crystal of claim 1, wherein said structure comprises a coating.

14. (original) The photonic crystal of claim 1, wherein said structure selectively reflects desired frequency ranges in at least one direction.

15 (currently amended). A biocompatible structure comprising a multilayered structure that includes plurality of biocompatible materials that are arranged to define a photonic crystal.

16 (currently amended). A biocompatible coating comprising a photonic crystal structure that includes a multilayered structure having a plurality of biocompatible materials.

Claims 17-20. (Withdrawn)

21 (currently amended). A piece of candy comprising a photonic structure that includes a multilayered structure having a plurality of biocompatible materials that are assembled to have a spatial variation of index of refraction that is in one or more directions.

Claims 22-25. (Withdrawn)